## WHAT IS CLAIMED IS:

- 1. A mobile terminal capable of identifying an
- 2 authorized user, when a user connects a detachable memory
- 3 medium to the mobile terminal, based on identification (ID)
- 4 information stored in the memory medium, comprising:
- 5 memory area creating means for creating a memory area,
- 6 which is unique to each authorized user, in association
- 7 with the ID information of the user;
- 8 encrypting means for reading out ID information from
- 9 the memory medium connected to the mobile terminal, and
- 10 encrypting personal contents fed to the mobile terminal on
- 11 the basis of the ID information;
- 12 storing means for storing the encrypted personal
- 13 contents in a specific memory area associated with the ID
- 14 information; and
- decrypting means for reading out ID information from
- 16 the memory medium connected to the mobile terminal, and
- 17 decrypting, based on the ID information, the personal
- 18 contents encrypted and stored in the specific memory area
- 19 associated with the ID information, thereby rendering the
- 20 personal contents accessible to the user.
  - 1 2. The mobile terminal according to Claim 1, wherein:
  - 2 said memory area creating means automatically creates,
  - 3 in response to the memory medium being connected to the
  - 4 mobile terminal, the specific memory area in association
  - 5 with the ID information stored in the memory medium.

- 3. The mobile terminal according to Claim 2, wherein:
- 2 said memory area creating means includes means for,
- 3 when the memory medium is connected to the mobile terminal,
- 4 providing a subordinate memory area associated with the
- 5 specific memory area in accordance with the user's
- 6 operation.
- 1 4. The mobile terminal according to Claim 1, further
- 2 comprising:
- 3 information sharing means which allows the users at
- 4 least either to write contents into a common memory area,
- 5 which is shared by a plurality of authorized users, or to
- 6 gain access to contents stored in the common memory area.
- 1 5. The mobile terminal according to Claim 4, further
- 2 comprising:
- 3 operation means for, when the memory medium is
- 4 connected by the user to the mobile terminal and the
- 5 personal contents is accessible by the user, at least
- 6 either coping or transferring the personal contents to the
- 7 common memory area in accordance with the user's operation.
- 1 6. The mobile terminal according to Claim 4, further
- 2 comprising:
- 3 operation means for, when the memory medium is
- 4 connected by the user to the mobile terminal and the

- 5 personal contents is accessible by the user, at least
- 6 either coping or transferring information stored at the
- 7 common memory area to the specific memory area associated
- 8 with the ID information in accordance with the user's
- 9 operation.
- 7. The mobile terminal according to Claim 1, wherein:
- 2 said encrypting means generates a cryptographic key
- 3 based on ID information read out from the memory medium
- 4 connected to the mobile terminal, and encrypts personal
- 5 contents using the cryptographic key.
- 1 8. The mobile terminal according to Claim 1, wherein:
- 2 said decrypting means generates a cryptographic key on
- 3 the basis of ID information read out from the memory medium
- 4 connected to the mobile terminal, and decrypts the
- 5 encrypted personal contents stored in the specific memory
- 6 area associated with the ID information by using the
- 7 cryptographic key.
- 9. The mobile terminal according to Claim 1, wherein:
- 2 the ID information is a subscriber information used
- 3 for identifying a subscriber who is authorized to receive
- 4 service to be provided via the mobile terminal, or a serial
- 5 number uniquely assigned to the mobile terminal.
- 1 10. The mobile terminal according to Claim 1,

- 2 wherein:
- 3 said storing means and decrypting means dynamically
- 4 manage encrypted personal contents as data files having a
- 5 varied size in accordance with file management information
- 6 which makes it possible to properly manage the association
- 7 of ID information of individual authorized users with their
- 8 specific memory areas.
- 1 11. The mobile terminal according to Claim 1,
- 2 wherein:
- 3 the mobile terminal is shared by a plurality of users
- 4 and comprises a fixed specific memory area uniquely
- 5 assigned to each of the user;
- 6 said storing means, when the encrypted personal
- 7 contents of a user is stored in the fixed memory area
- 8 specifically assigned to the user, attaches a tag on a
- 9 header portion of the fixed memory area; and
- said decrypting means, when it is required to decrypt
- 11 the encrypted personal data, determines the fixed memory
- 12 area specifically assigned to the user by seeking the tag
- 13 based on the ID information read from the memory medium
- 14 currently connected to the mobile terminal.
  - 1 12. The mobile terminal according to Claim 1,
  - 2 wherein:
  - 3 the memory medium is an IC card based on a common.
  - 4 standard.

- 1 13. A method for managing information in a mobile
- 2 terminal comprising a body and a memory medium with the
- 3 memory medium carrying identification (ID) information
- 4 being attached to or detached from the body, comprising:
- 5 reading ID information from a memory medium connected
- 6 to the mobile terminal;
- 7 encrypting personal contents fed to the mobile
- 8 terminal on the basis of the ID information, and storing
- 9 the encrypted personal contents in a specific memory area
- 10 associated with the ID information;
- 11 reading out ID information from the memory medium when
- 12 the memory medium is connected by a user to the mobile
- 13 terminal; and
- decrypting, when the encrypted personal contents is
- 15 stored in a specific memory area associated with the ID
- 16 information, the encrypted personal contents based on the
- 17 ID information, thereby rendering the personal contents
- 18 accessible to the user.
- 1 14. The information management method according to
- 2 Claim 13, further comprising:
- 3 reading, in response to the memory medium being
- 4 connected to the mobile terminal, the ID information from
- 5 the memory medium; and
- 6 automatically creating the specific memory area in
- 7 association with the ID information.

- 1 15. The information management method according to
- 2 Claim 13, wherein:
- 3 in said encrypting, a cryptographic key is generated
- 4 on the basis of the ID information read out from a memory
- 5 medium connected to the mobile terminal, and the personal
- 6 contents fed to the mobile terminal is encrypted by using
- 7 the cryptographic key.
- 1 16. The information management method according to
- 2 Claim 14, wherein:
- in said encrypting, a cryptographic key is generated
- 4 on the basis of the ID information read out from a memory
- 5 medium connected to the mobile terminal, and the personal
- 6 contents fed to the mobile terminal is encrypted by using
- 7 the cryptographic key.
- 1 17. The information management method according to
- 2 Claim 13, wherein:
- 3 in said decrypting, a cryptographic key is generated
- 4 on the basis of the ID information read out from a memory
- 5 medium connected to the mobile terminal, and the encrypted
- 6 personal contents stored in the specific memory area
- 7 associated with the ID information is decrypted by using
- 8 the cryptographic key.
- 1 18. The information management method according to

- 2 Claim 14, wherein:
- 3 in said decrypting, a cryptographic key is generated
- 4 on the basis of the ID information read out from a memory
- 5' medium connected to the mobile terminal, and the encrypted
- 6 personal contents stored in the specific memory area
- 7 associated with the ID information is decrypted by using
- 8 the cryptographic key.
- 1 19. The information management method according to
- 2 Claim 13, wherein:
- 3 the ID information is a subscriber information used
- 4 for identifying a subscriber who is authorized to receive
- 5 service to be provided via the mobile terminal, or a serial
- 6 number uniquely assigned to the mobile terminal.
- 1 20. A computer program for controlling an operation
- 2 of a mobile terminal capable of identifying, when a
- 3 detachable memory medium is connected to the motile
- 4 terminal, an authorized user based on ID information stored
- 5 in the memory medium, by implementing the computer program
- 6 in the mobile terminal, the mobile terminal realizes:
- 7 a memory area creating function of creating a memory
- 8 area, which is unique to each authorized user, in
- 9 association with the ID information of the user;
- 10 an encrypting function of reading out ID information
- 11 from the memory medium connected to the mobile terminal,
- 12 and encrypting personal contents fed to the mobile terminal

- 13 on the basis of the ID information;
- 14 a storing function of storing the encrypted personal
- 15 contents in a specific memory area associated with the ID
- 16 information; and
- a decrypting function of reading out ID information
- 18 from the memory medium connected to the mobile terminal,
- 19 and decrypting, based on the ID information, the personal
- 20 contents encrypted and stored in the specific memory area
- 21 associated with the ID information, thereby rendering the
- 22 personal contents accessible to the user.